

Water Resources Division's

Aquatic Invasive Species of the Week!

FOR THE WEEK OF:

Zebra and Quagga Mussels

January 6-12, 2014

Dreissena polymorpha & D. rostriformis bugensis

	Zebra Mussels	Quagga Mussels
Origin:	Black and Caspian Seas	Dneiper River drainage of Ukraine
Current Distribution:	First observed in 1988. In	First observed in 1989 in Lake Erie. Today
	1990, they were found in all of	they are found in all of the Great Lakes
	the Great Lakes. Today, they	(limited in Lake Superior to an area near
	are still throughout the Great	Duluth, MN). Fortune Pond in Iron Co., MI
	Lakes but now include many	is the only known confirmed occurrence in
	inland waters of Michigan.	inland waters of Michigan.
Means of Introduction:	Ballast water discharge	Ballast water discharge
Description:	Sits flat on ventral side	Will not sit flat on ventral side
	 Triangular in shape 	 Round shape
	 Color patterns vary 	 Lighter in color near hinge
	 Bilaterally symmetrical 	 Asymmetrical
	Photo: Myriah Richerson, USGS	Photo: Myriah Richerson, USGS

Impacts: BOTH filter water at a high rate removing food sources such as plankton from the food web and other particles from the water column, which are then deposited on the lake bottom. The high filtration rates increase water clarity allowing more sunlight at greater depths resulting in increased aquatic plant growth. Recreational activities can be affected; as well as clogged utility and drinking water intake pipes. Zebra mussels have also been shown to attach to

native mussels, disrupt feeding and other activities, and eventually smother the native mussel. Zebra mussels have also been linked to a proliferation of Type E Botulism leading to a surge in loon die-offs in recent years.

Further information on aquatic invasive species can be found at the DEQ's website: www.michigan.gov/aquaticinvasives.com



Photo: Zebra mussels covering a native mussel. IL Sea Grant.



Photo: Invasive mussel shells a foot deep at Bay City State Recreation Area in 2012.